

FORM PTO-1449

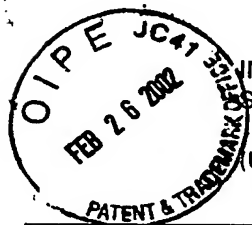
U. S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

U. 013838-2

10/056,231

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT

Kazuhide KUBOTA, et al.

FILING DATE

GROUP

Jan. 25, 2002

N/A

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
<i>msk</i>	AL	1 1 2 9 7 3 1	2/199	JP			X
<i>msk</i>	AM	6 1 4 6 1 7 8	5/1994	JP			
<i>msk</i>	AN	0 7 3 9 7 4 3	10/1996	EP		X	
<i>msk</i>	AO	0 5 3 4 6 3 4	3/1993	EP		X	
<i>msk</i>	AP	0 6 3 1 0 0 5	12/1994	EP		X	

OTHER ART (Including Author, Title, Date, Pertinent Dates, Etc.)

<i>msk</i>	AR	PATENT ABSTRACT OF JAPAN OF JP 11-029731 DATED FEBRUARY 2, 1999.
<i>msk</i>	AS	PATENT ABSTRACT OF JAPAN OF JP 6-146178 DATED MAY 27, 1994.
	AT	

EXAMINER

DATE CONSIDERED

5/8/03

EXAMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<i>mm</i>	AL	0 6 3 1 0 0 6	12/1994	EP			X	
<i>mm</i>	AM	1 1 2 1 7 7 2	1/1999	JP				X
<i>mm</i>	AN	1 0 3 3 0 6 6 1	12/1998	JP				X
	AO							
	AP							

OTHER ART (Including Author, Title, Date, Pertinent Dates, Etc.)

<i>mm</i>	AR	PATENT ABSTRACT OF JAPAN OF JP 11-021772 DATED JANUARY 26, 1999.
<i>mm</i>	AS	PATENT ABSTRACT OF JAPAN OF JP 10-330661 DATED DECEMBER 15, 1998.
	AT	

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Dkt. No.

M#

U 013838-2

Client Ref.

F006005US00/TP

INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

Applicant: SEIKO EPSON CORPORATION (Kazuhide KUBOTA et al.)

Appln. No. 10/056,231

Filing Date: January 25, 2002

Examiner:

Group Art Unit:

Date:

Page 1 of 2

U.S. PATENT DOCUMENTS

Examiner's initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
<i>me</i>	AR	5,120,359	06/1992	UZUKAWA	C09D	11/10	Feb. 22, 1989
<i>me</i>	BR	5,734,403	03/1998	SUGA	B41J	2/01	May 17, 1996
	CR						
	DR						
	ER						
	FR						
	GR						
	HR						

Foreign patent documents

		Document Number	Date MM/YYYY	Country	Inventor name	Class	Sub Class	Translation Readily Available	
								Enclose	No.
<i>me</i>	IR	55(1980)-157668	12/1980	JP	TAKESHITA	C09D	11/16		X
<i>me</i>	JR	56(1981)-147859	11/1981	JP	OOTA	C09D	11/00		X
<i>me</i>	KR	56(1981)-147860	11/1981	JP	OOTA	C09D	11/00		X
<i>me</i>	LR	62(1987)-1426	01/1987	JP	YOSHIDA	B01D	35/06		X
<i>me</i>	MR	01(1989)-217088	08/1989	JP	UZUKAWA	C09D	11/16	X	
<i>me</i>	NR	03(1991)-56573	03/1991	JP	ONISHI	C09D	11/00		X
<i>me</i>	OR	03(1991)-60068	03/1991	JP	YAMAZAKI	H01L	27/10		X
<i>me</i>	PR	03(1991)-79678	04/1991	JP	MURAI	C09D	11/00		X
<i>me</i>	QR	03(1991)-160068	07/1991	JP	ONISHI	C09D	11/00		X
<i>me</i>	RR	03(1991)-240557	10/1991	JP	ONISHI	B41J	2/21		X
<i>me</i>	SR	03(1991)-240558	10/1991	JP	ONISHI	B41J	2/21		X

OTHER (including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

<i>me</i>	TR	JPO ABSTRACT 55(1980)-157668, Dec. 8, 1980
<i>me</i>	UR	JPO ABSTRACT 56(1981)-147859, Nov. 17, 1981
<i>me</i>	VR	JPO ABSTRACT 56(1981)-147860, Nov. 17, 1981
<i>me</i>	WR	JPO ABSTRACT 62(1987)-1426, Jan. 7, 1987
<i>me</i>	XR	JPO ABSTRACT 03(1991)-56573, Mar. 12, 1991
<i>me</i>	YR	JPO ABSTRACT 03(1991)-60068, Mar. 15, 1991
<i>me</i>	ZR	JPO ABSTRACT 03(1991)-79678, Apr. 4, 1991
<i>me</i>	AAR	JPO ABSTRACT 03(1991)-160068, Jul. 10, 1991
<i>me</i>	ABR	JPO ABSTRACT 03(1991)-240557, Oct. 25, 1991
<i>me</i>	ACR	JPO ABSTRACT 03(1991)-240558, Oct. 25, 1991

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Date Considered:

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Group Art Unit:

Date: Page 2 of 2

U.S. PATENT DOCUMENTS

Examiner's initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR						
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	FR						
	GR						
	HR						

Foreign patent documents

		Document Number	Date MM/YYYY	Country	Inventor name	Class	Sub Class	Translation Readily	
								Enclose	No.
<i>mr</i>	IR	04(1992)-5703	01/1992	JP	HIGUCHI	G05B	19/05		X
<i>mr</i>	JR	04(1992)-18462	01/1992	JP	SUGA	C09D	11/00		X
<i>mr</i>	KR	04(1992)-76004	03/1992	JP	KAWAMOTO	C08F	2/22		X
<i>mr</i>	LR	05(1993)-320276	12/1993	JP	MURAMOTO	C08F	285/00	*	
<i>mr</i>	MR	06(1994)-106735	04/1994	JP	SUGA	B41J	2/21	X	
<i>mr</i>	NR	09(1997)-99632	04/1997	JP	MAKINO	B41M	5/00	*	
<i>mr</i>	OR	10(1998)-316909	12/1998	JP	NAGAI	C09D	11/00	*	
	PR								
	QR								
	RR								
	SR								

OTHER (including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

<i>mr</i>	TR	JPO ABSTRACT 04(1992)-5703, Jan. 9, 1992
<i>mr</i>	UR	JPO ABSTRACT 04(1992)-18462, Jan. 22, 1992
<i>mr</i>	VR	JPO ABSTRACT 04(1992)-76004, Mar. 10, 1992
<i>mr</i>	WR	JPO ABSTRACT 05(1993)-320276, Dec. 3, 1993
<i>mr</i>	XR	JPO ABSTRACT 09(1997)-99632, Apr. 15, 1997
<i>mr</i>	YR	JPO ABSTRACT 10(1998)-316909, Dec. 2, 1998
	ZR	
	AAR	
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